

APRIL/MAY 2023

**UCA51 — DATABASE MANAGEMENT
SYSTEMS**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term – Primary key.
2. What are Constraints?
3. Define the term– Tuple.
4. What is Domain?
5. Define the term – DDL.
6. What is Embedded SQL?
7. Define the term – Normalization.
8. What is Functional dependency?
9. Define the term – Exception handling.
10. What are Integrity constraints?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss on the purpose of Database systems.

Or

- (b) Describe about Entity-Relationship model.

12. (a) Explain the basics of Relational algebra.

Or

- (b) Discuss on Tuple relational calculus.

13. (a) Describe about the Aggregate Functions in SQL.

Or

- (b) Explain the method of Modification of the Database.

14. (a) Discuss on the Fourth Normal Form using example.

Or

- (b) Describe the BCNF with an example.

15. (a) Explain the features of DML commands in SQL.

Or

- (b) Discuss on the importance of Procedure and Function in PL/SQL.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the features of Entity-Relationship diagrams with examples.

17. Describe the structure and features of Relational model in detail.

18. Discuss on the basic structure of SQL Queries and Set operations.

19. Explain the First, Second and Third Normal Forms using examples.

20. Describe the importance of Cursors and Triggers with examples.